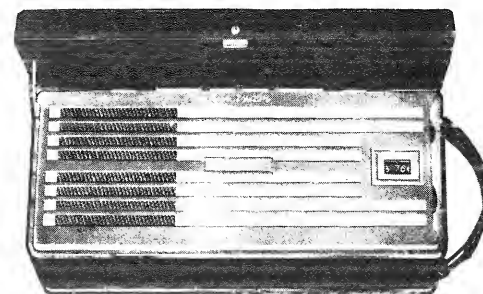


Model BP10

Chassis No. RC-544

Specifications

Frequency Range.....	540-1,600 kc	
Intermediate Frequency.....	455 kc	
Power Supply		
Type Battery	Current Consumption	Approximate Life (Intermittent Duty)
"A"—1.5 volt } Eveready No. 950	0.25 amperes	3-5 hours
"B"—67.5 volts } Eveready No. 467		
	8.5 milliamperes	25-40 hours
Power Output.....	Undistorted 0.05 watts	Maximum 0.12 watts
Loudspeaker	Round	Elliptical
Type Permanent-Magnet Dynamic.....	84991-1 3-inch	RL95-2 2 x 2¼ inches
Voice Coil Impedance.....	3.0 ohms at 400 cycles	11.8 ohms at 900 cycles
Cabinet Dimensions (inches)	3 x	8⅞ x 3⅝
Weight... 4½ lbs. (net)	Tuning Drive Ratio..... 1 to 1	



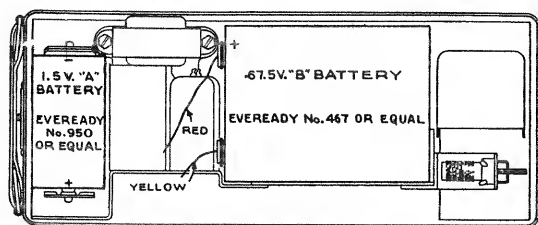
Replacement Parts

Insist on genuine factory-tested parts, which are readily identified and may be purchased from authorized dealers.

PART No.	DESCRIPTION	PART No.	DESCRIPTION
CHASSIS ASSEMBLIES (RC-544)			
36717	Capacitor—20 mmfd.....		(3.) Elliptical Speaker and Lid Support. (Serial No. prefixed "D" or "BD.") Same as (2.) above except uses Elliptical Speaker.
36715	Capacitor—50 mmfd.....		(4.) Elliptical or Round Speaker and Lid Support. (Serial No. prefixed "A," "BA," "D" or "BD.") Same as (2.) or (3.) above except loop and cover assembly is fastened to moulded lid by two rivets, instead of cement.
36716	Capacitor—100 mmfd.....	38212	Lid—Moulded lid with lid support, sections of lid hinges, hinge springs and pins, and 2 rivets—less chrome panel, and loop and cover assembly.....
12488	Capacitor—270 mmfd.....	38204	Loop—Antenna loop and moulded cover (flat) assembly, and 2 rivets.....
36163	Capacitor—.001 mfd.....	38205	Catch—Case front cover catch and 2 rivets.....
33584	Capacitor—.005 mfd.....	38206	Hinge—Case front cover hinge and rivets.....
36248	Capacitor—.02 mfd.....	38207	Connector—One set (2) loop contact connectors...
32787	Capacitor—.05 mfd.....	38208	Rivet—One pkg. (10) rivets to fasten loop in lid..
36718	Capacitor—Electrolytic, 10 mfd., 60 volts.....		(5.) Elliptical or Round Speaker and Lid Support. (Serial No. prefixed "A," "BA," "D" or "BD.") Same as (2.) or (3.) above except loop and cover assembly is fastened to moulded lid by two snap fasteners, instead of cement.
36497	Coil—Oscillator coil.....	38211	Lid—Moulded lid with lid support, sections of lid hinges, hinge springs and pins, and 2 snap fasteners—less chrome panel, and loop and cover assembly.....
36496	Condenser—Variable tuning condenser.....	38209	Loop—Antenna loop and moulded cover (flat) assembly, and 2 snap fasteners.....
36495	Control—Volume control.....	38205	Catch—Case front cover catch and 2 rivets.....
36606	Core—Adjustable core and stud for oscillator coil..	38206	Hinge—Case front cover hinge and rivets.....
36503	Holder—Battery holder complete.....	38207	Connector—One set (2) loop contact connectors...
36501	Knob—Tuning knob.....	38210	Fastener—One set (2) snap fasteners to fasten loop in lid.....
36502	Knob—Volume control knob.....		(6.) Revised Stock No. 37855 Lid and Loop as used on (1.) above. (See note C)
30158	Resistor—820 ohms, 1/2 watt.....	38212	Lid—Moulded lid (no lid support), with sections of lid hinges, hinge springs and pins, and 2 RIVETS—less chrome panel, and loop and cover assembly.....
36714	Resistor—15,000 ohms, 1/2 watt.....	38211	Lid—Moulded lid (no lid support), with sections of lid hinge, hinge springs and pins, and 2 SNAP FASTENERS—less chrome panel, and loop and cover assembly.....
30787	Resistor—47,000 ohms, 1/2 watt.....	38204	Loop—Antenna loop and moulded cover (flat) assembly, and 2 rivets.....
3252	Resistor—100,000 ohms, 1/2 watt.....	38209	Loop—Antenna loop and moulded cover (flat) assembly, and 2 snap fasteners.....
30652	Resistor—1 megohm, 1/2 watt.....	38205	Catch—Case front cover catch and mounting screws.....
31417	Resistor—3.3 megohm, 1/2 watt.....	38206	Hinge—Case front cover hinge and screws.....
30931	Resistor—4.7 megohm, 1/2 watt.....	38207	Connector—One set (2) loop contact connectors...
30992	Resistor—10 megohm, 1/2 watt.....	38208	Rivet—One pkg. (10) rivets to fasten loop in lid
31085	Screw—No. 8-32 x 1/8 set screw for knobs.....	38210	Fastener—One set (2) snap fasteners to fasten loop in lid.....
36500	Socket—Tube socket.....		—NOTES—
36069	Socket—1T4 tube socket.....		(A) 37854 Chrome Panel includes two (2) grille assemblies thus making it adaptable to all above productions using either round or elliptical speaker.
36498	Transformer—First I.F. transformer.....		(B) 37855 Moulded Lid and Loop Assembly—Future orders for this item will be supplied with loop fastened in lid with either 2 rivets, or 2 snap fasteners. Repair parts for this new assembly are listed under "Revised Lid for (1)" above.
36499	Transformer—Second I.F. transformer.....		(C) 37853 Moulded Lid and Loop Assembly—Future orders for this item will be supplied with loop fastened in lid with either 2 rivets, or 2 snap fasteners. Repair parts for this new assembly are listed under (4) or (5) above, depending on type of fastening used.
SPEAKER ASSEMBLIES (84991-501) (Round)			
36504	Speaker—3-inch P. M. speaker, complete with cone and voice coil, less output transformer.....		(D) 38211 and 38212 Moulded Lids less Loop Assemblies—These 2 items (one with rivets, and one with snap fasteners) will be supplied with lid support not assembled to lid thus making them adaptable to models with either chrome panels of any of the above productions.
36505	Transformer—Output transformer.....		
37807	Speaker—Elliptical speaker (no transformer).....		
37806	Transformer—Output transformer.....		
37951	Cone—Cone and voice coil.....		
MISCELLANEOUS ASSEMBLIES			
36507	Bottom—Receiver case bottom cover.....		
36508	Center—Receiver case center strip.....		
36509	Handle—Carrying handle and bracket.....		
36696	Initials—100 initials to each set comprising 25 groups of the average initials and one tube of cement.....		
37156	Catch—Case back cover catch and spring.....		
37179	Clip—"B+" battery clip.....		
37180	Clip—"B-" battery clip.....		
37857	Pin and Spring—2 pins and 2 springs for lid hinges		
36695	Strap—Shoulder strap.....		
36506	Switch—Power switch.....		
A number of changes have been made in this model since the first production.			
The above parts list applies to all models.			
Changes and Parts effected are listed below.			
(1.) Round Speaker and No Lid Support.			
(Serial No. without letter or prefixed "B.")			
37855	Lid—Moulded lid with antenna and cover, sections of lid hinges, and hinge pins and springs—less chrome panel (See note B).....		
37856	Panel—Chrome front panel with sections of lid hinges, and hinge pins and springs—less moulded lid (See note A).....		
(2.) Round Speaker and Lid Support.			
(Serial No. prefixed "A" or "BA.")			
37853	Lid—Moulded lid with antenna and cover, lid support, sections of lid hinges, and hinge pins and springs—less chrome panel. (See note C).....		
37854	Panel—Chrome front panel with sections of lid hinges, and hinge pins and springs—less moulded lid and lid support. (See note A).....		
37811	Support—Lid support.....		

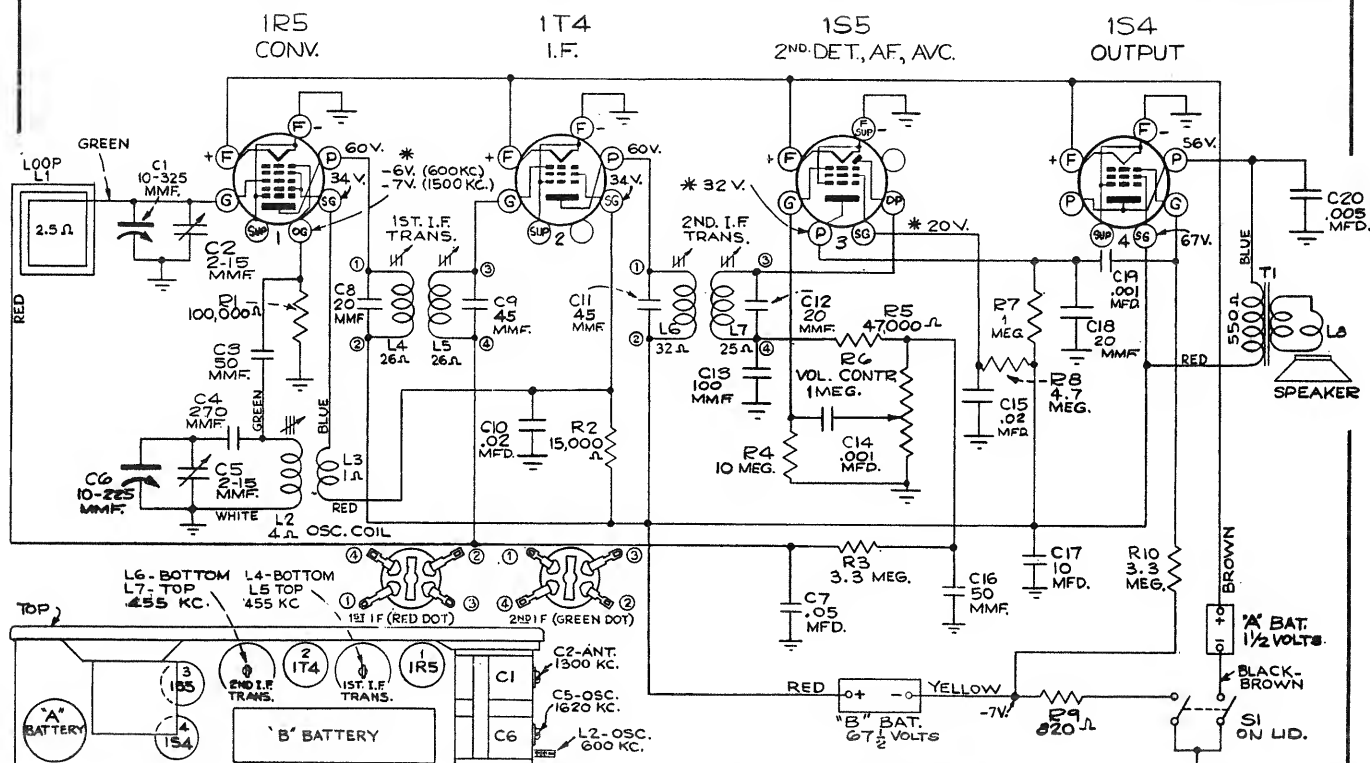
Output Meter Alignment.—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-Oscillator.—For all alignment operations, keep the output as low as possible to avoid a-v-c action.



Steps	Connect the high side of test-osc. to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	Tuning condenser stator (ant.) in series with .01 mfd.	455 kc	Quiet point at 1,600 kc end of dial	L7, L6, L5, L4 (2nd and 1st I-F transformers)
2	Radiated signal 1,620 kc	1,620 kc	Full clockwise (out of mesh)	C5 (oscillator)
3	Radiated signal 1,300 kc	1,300 kc	1,300 kc signal	C2 (antenna)
4	Radiated signal 600 kc	600 kc	600 kc	L2 (osc.)
5	Repeat steps 2, 3 and 4.			

35X (AVC. WORKING) 600-455 KC. — 0.8 X (455 KC.) — 100X (AVC. WORKING) (455 KC.) — 0.6 X (455 KC.) — 35 X (400 ~) — 15 X (400 ~) — APPROX. GAIN DATA USING RCA RIDER CHANALYST



VOLTAGES SHOULD HOLD WITHIN $\pm 20\%$ WITH RATED BATTERY VOLTAGE.
* MEASURED WITH CHANALYST OR VOLTOHMYST.

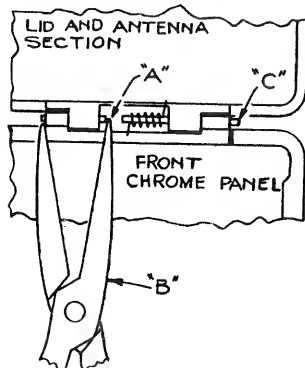
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Replacing Lid or Front Panel:

When the molded lid (which contains the loop antenna), or the chrome front panel requires replacement, it is not necessary to replace the complete assembly of lid and front panel, as either one may be replaced separately in a few minutes by taking out the hinge pins as described below.

First remove the three self-tapping screws that hold the chassis in the center case, and remove the case. Unsolder the leads from the loop lugs.

- With lid closed, cut hinge pins at point "A" with sharp cutters.
- Start removal of pin sections as shown, using long-nose pliers.
- Grasp end of pin section with long-nose pliers and pull out of hinge.
- Install new lid, or new front panel, using the replacement hinge pins and springs that are provided with replacement lids and panels. Arrange springs as shown. Apply a small amount of "Thermoplastic Cement" (G.E. ZV 5057) near outer end of each pin to insure tight and permanent fit.



Replacing Lid or Chrome Panel

Low Output:

Low output on BP-10 Models that have elliptical speaker may be due to the 1S4 out-

put tube lying close to the speaker magnet, causing disturbance of the space charge in the tube. To remedy this condition, install a felt pad between the speaker frame and the tube to keep the tube upright in its socket and spaced away from the magnet.

Loose Control Knobs:

If for any reason either the tuning or volume control knob on Model BP-10 should become loose on its shaft, it may be rigidly mounted in the following manner:

- Remove the loose control knob from its shaft and scrape off the old cement from both shaft and control knob.
- Apply a generous even coating of a good cement to the shaft region which is to engage the knob. G.E. Thermoplastic cement, ZV-5057, is excellent for this purpose; it is a green fluid, easily thinned with acetone if necessary.
- Allow the cement on the shaft to air-dry, to evaporate any acetone present.
- Apply a small amount of heat to the shaft, sufficient to soften the cement.
- Mount knob on shaft while cement is still soft, and allow a few minutes for drying.